

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/02146

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H05B41/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 33915 A (KONINKL PHILIPS ELECTRONICS NV) 10 May 2001 (2001-05-10) cited in the application page 5, line 1 -page 6, line 10	1-12
Y	US 5 563 475 A (YOON JEONG-WHAN) 8 October 1996 (1996-10-08) column 3, line 27 - line 60	1-12
X	DE 19 55 701 A (SIEMENS AG) 13 May 1971 (1971-05-13) page 2, line 1 -page 6, line 6	1
A	US 4 388 561 A (AOIKE NANJOU ET AL) 14 June 1983 (1983-06-14) column 2, line 20 - line 62	1-12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

15 September 2003

Date of mailing of the international search report

29/09/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 555 753 A (TAKAHASHI MAKOTO) 26 November 1985 (1985-11-26) column 3, line 67 -column 4, line 29 -----	1-12

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International Application No
PCT/JP 03/02146

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0133915	A	10-05-2001	US 6225755 B1 CN 1342389 T WO 0133915 A1 EP 1142454 A1 JP 2003513601 T	01-05-2001 27-03-2002 10-05-2001 10-10-2001 08-04-2003
US 5563475	A	08-10-1996	KR 265199 B1 DE 4420403 A1 JP 7022187 A	15-09-2000 22-12-1994 24-01-1995
DE 1955701	A	13-05-1971	DE 1955701 A1 AT 298558 B	13-05-1971 10-05-1972
US 4388561	A	14-06-1983	NONE	
US 4555753	A	26-11-1985	JP 1706124 C JP 3072198 B JP 59081899 A	27-10-1992 15-11-1991 11-05-1984